FIG. 1

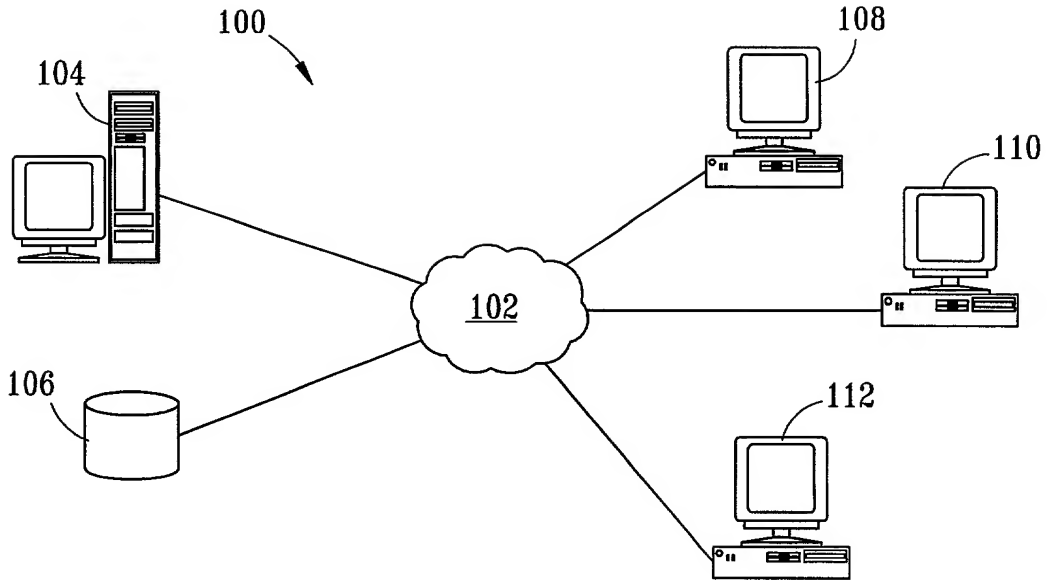
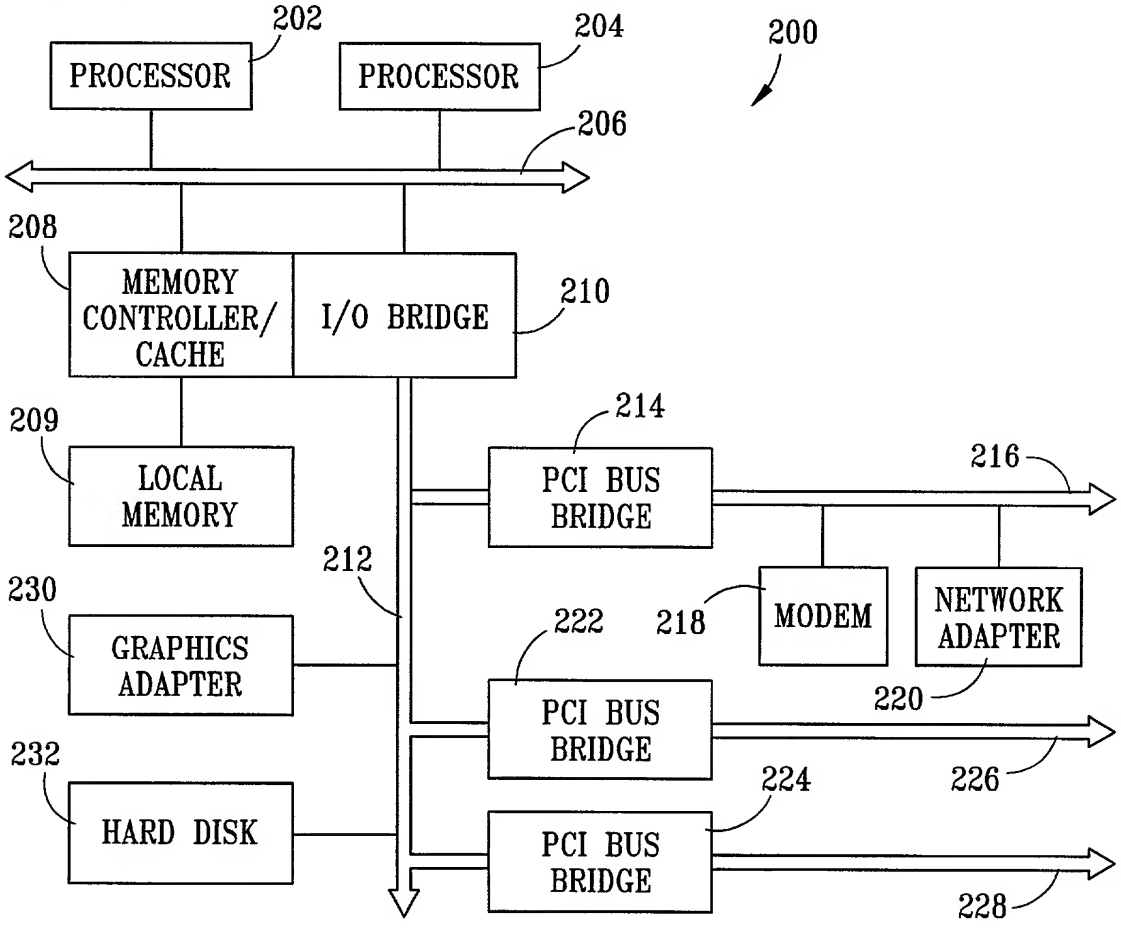

100
104
108
110
102
106
112

FIG. 2


202
PROCESSOR
204
PROCESSOR
200
206
208
MEMORY CONTROLLER/ CACHE
I/O BRIDGE
210
209
LOCAL MEMORY
214
PCI BUS BRIDGE
216
212
230
GRAPHICS ADAPTER
222
218
MODEM
NETWORK ADAPTER
220
PCI BUS BRIDGE
226
232
HARD DISK
224
PCI BUS BRIDGE
228

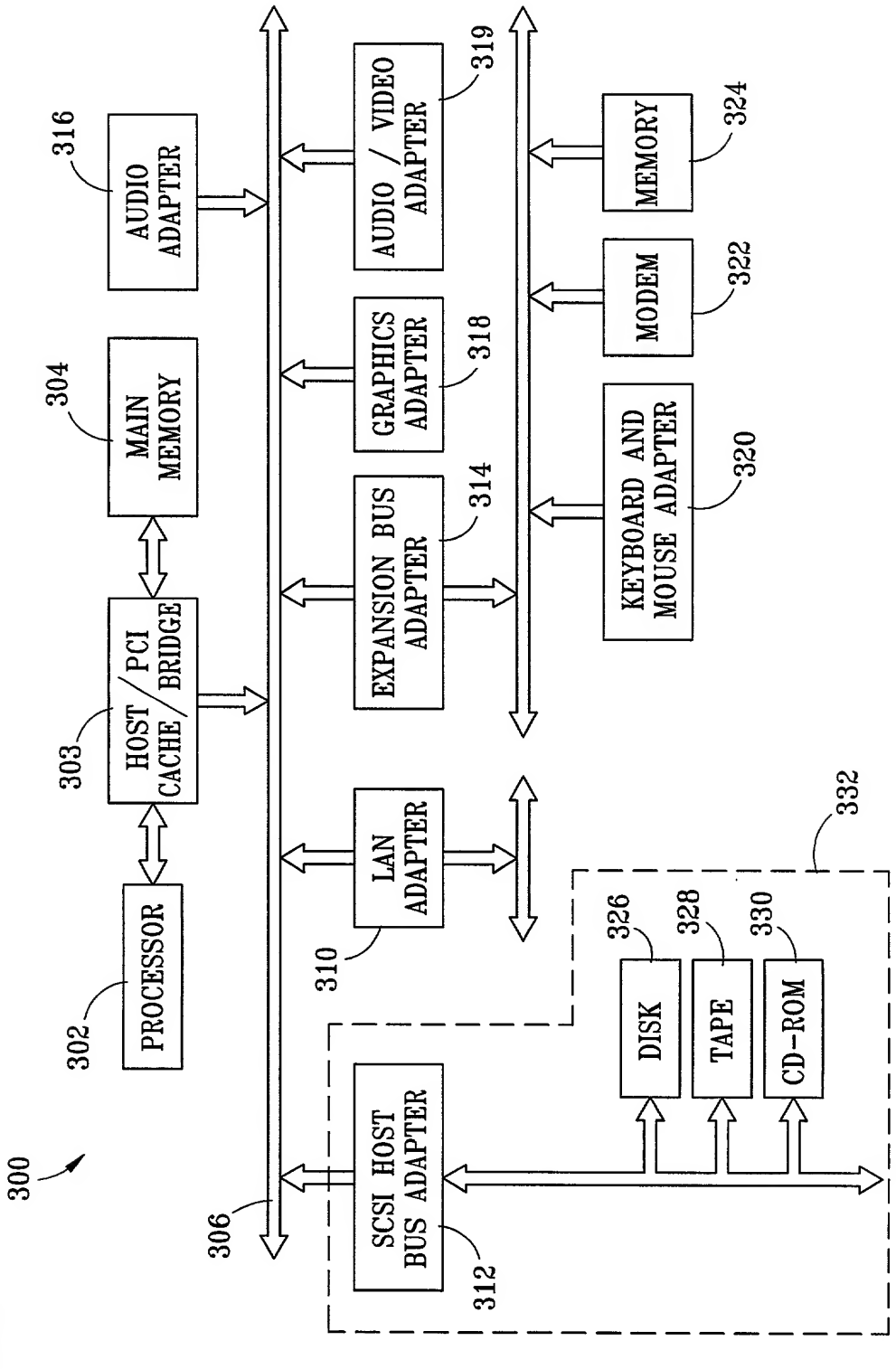

300
302
PROCESSOR
303
HOST / PCI
CACHE / BRIDGE
304
MAIN
MEMORY
306
310
LAN
ADAPTER
312
SCSI HOST
BUS ADAPTER
314
EXPANSION BUS
ADAPTER
316
AUDIO
ADAPTER
318
GRAPHICS
ADAPTER
319
AUDIO / VIDEO
ADAPTER
320
KEYBOARD AND
MOUSE ADAPTER
322
MODEM
324
MEMORY
326
DISK
328
TAPE
330
CD-ROM
332

FIG. 3

FIG. 4

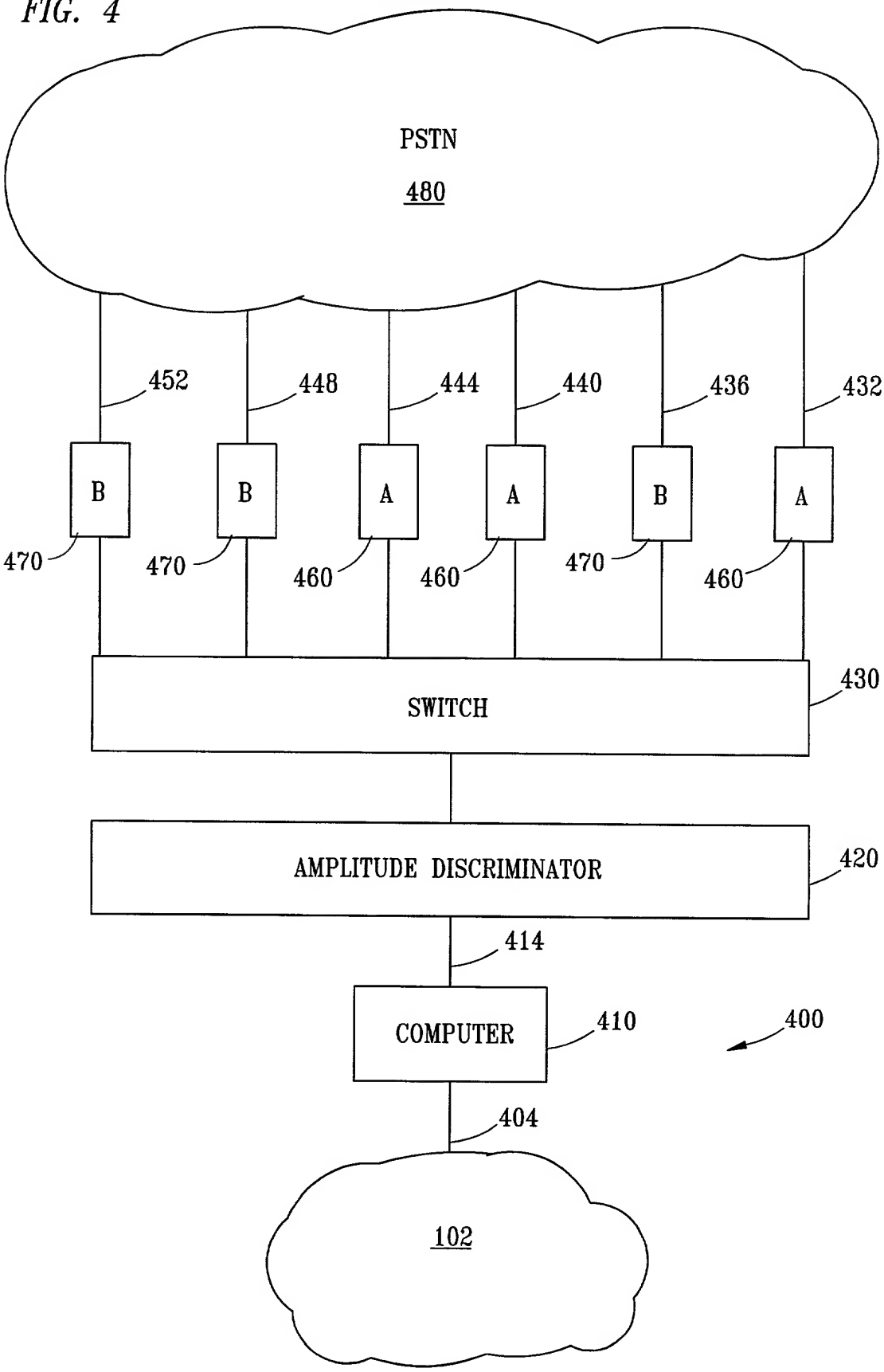

PSTN
480
452
448
444
440
436
432
B
B
A
A
B
A
470
470
460
460
470
460
SWITCH
430
AMPLITUDE DISCRIMINATOR
420
414
COMPUTER
410
400
404
102

FIG. 5

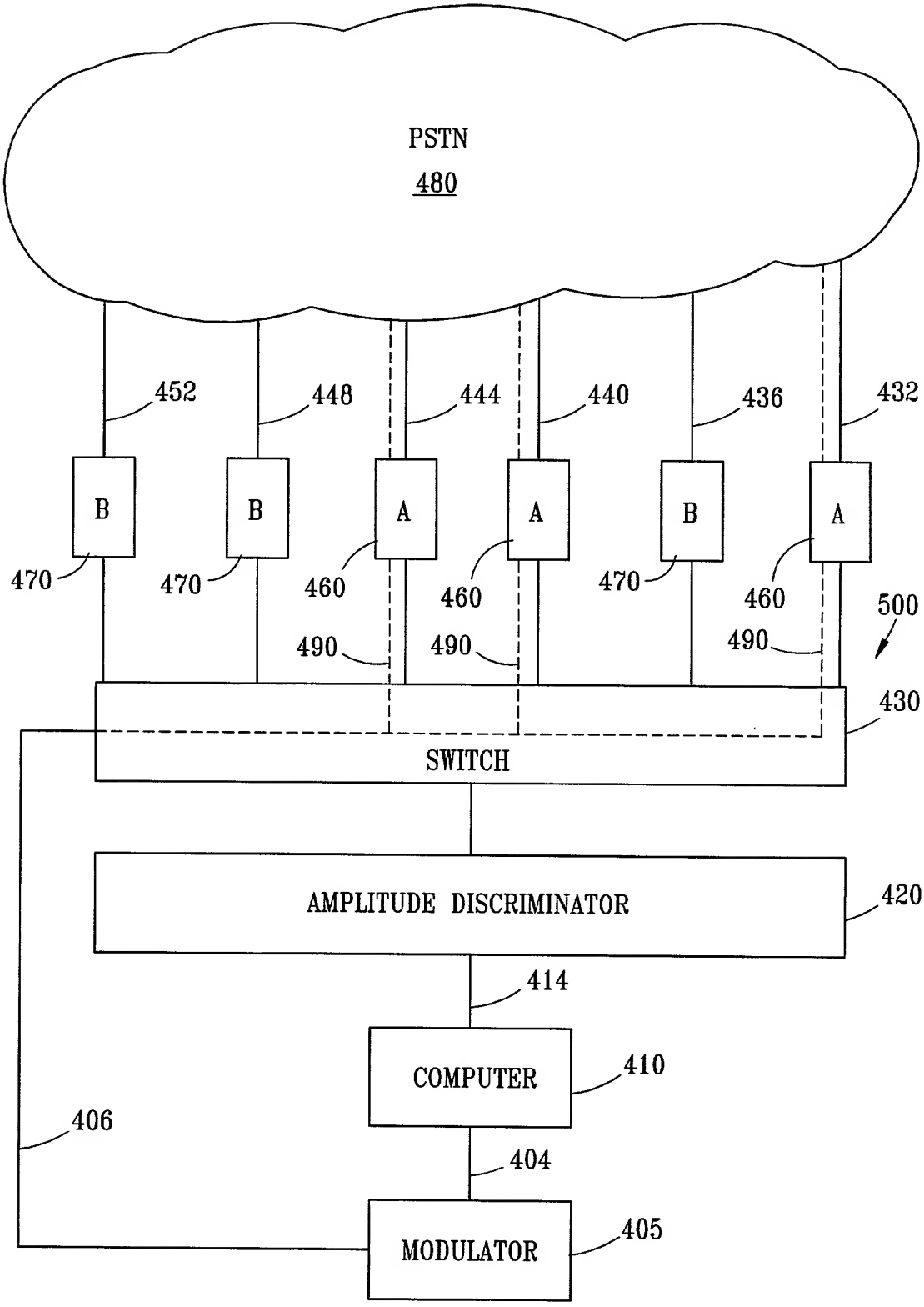

PSTN
480
452
448
444
440
436
432
B
B
A
A
B
A
470
470
460
460
470
460
490
490
490
500
430
SWITCH
AMPLITUDE DISCRIMINATOR
420
414
COMPUTER
410
406
404
MODULATOR
405

FIG. 6A

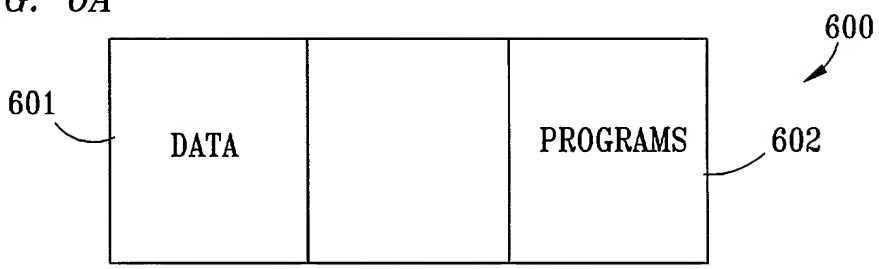


FIG. 6B

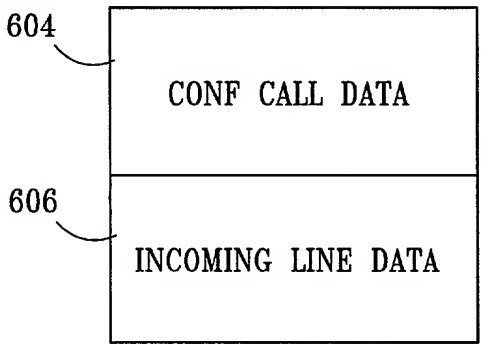


FIG. 6C

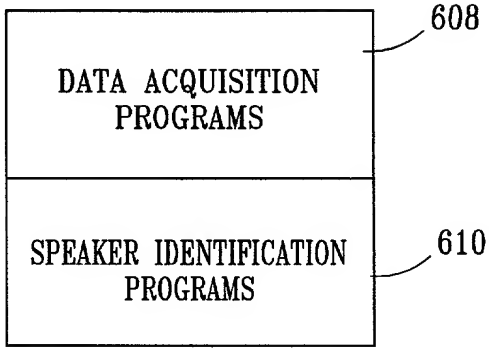


FIG. 6D

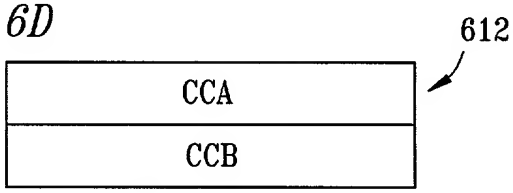


FIG. 6E

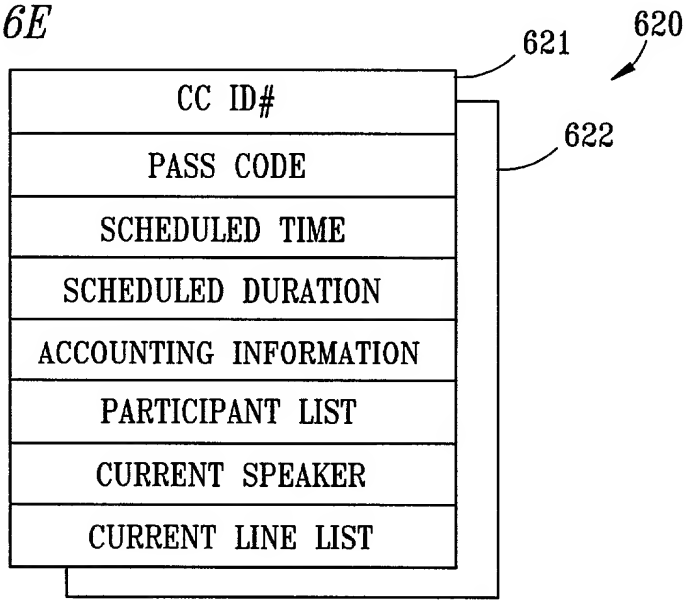


FIG. 6F

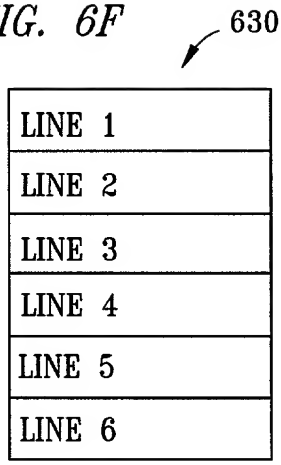


FIG. 6G

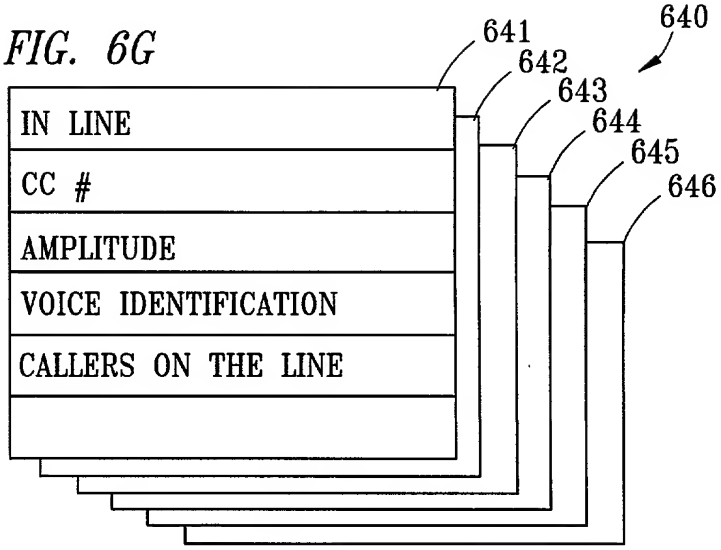


FIG. 6H

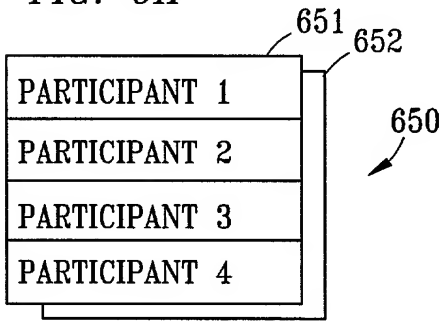


FIG. 6I

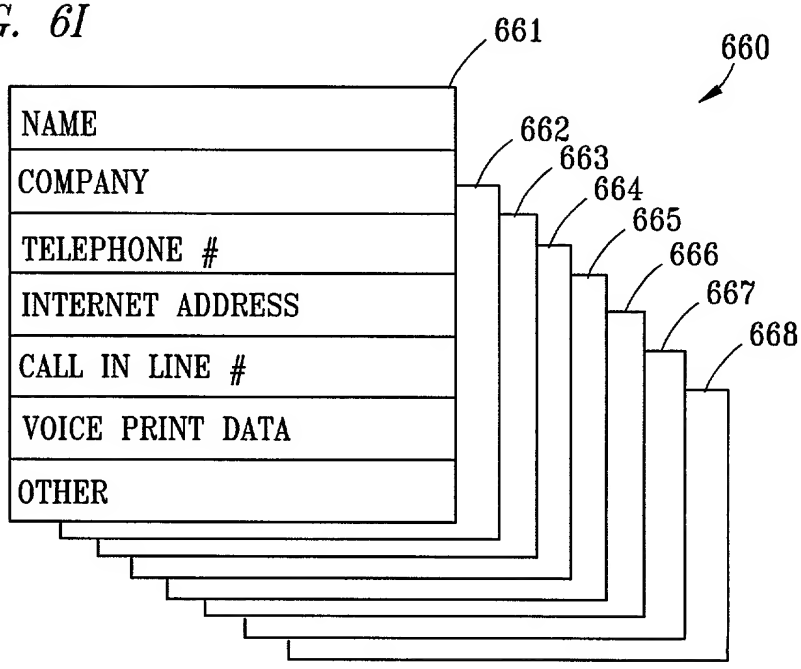


FIG. 6J

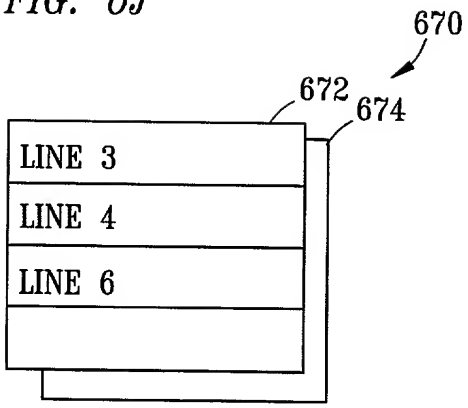


FIG. 6K

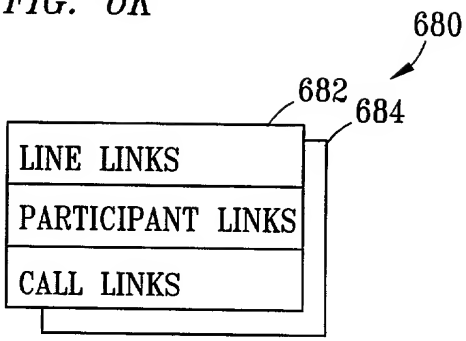


FIG. 7

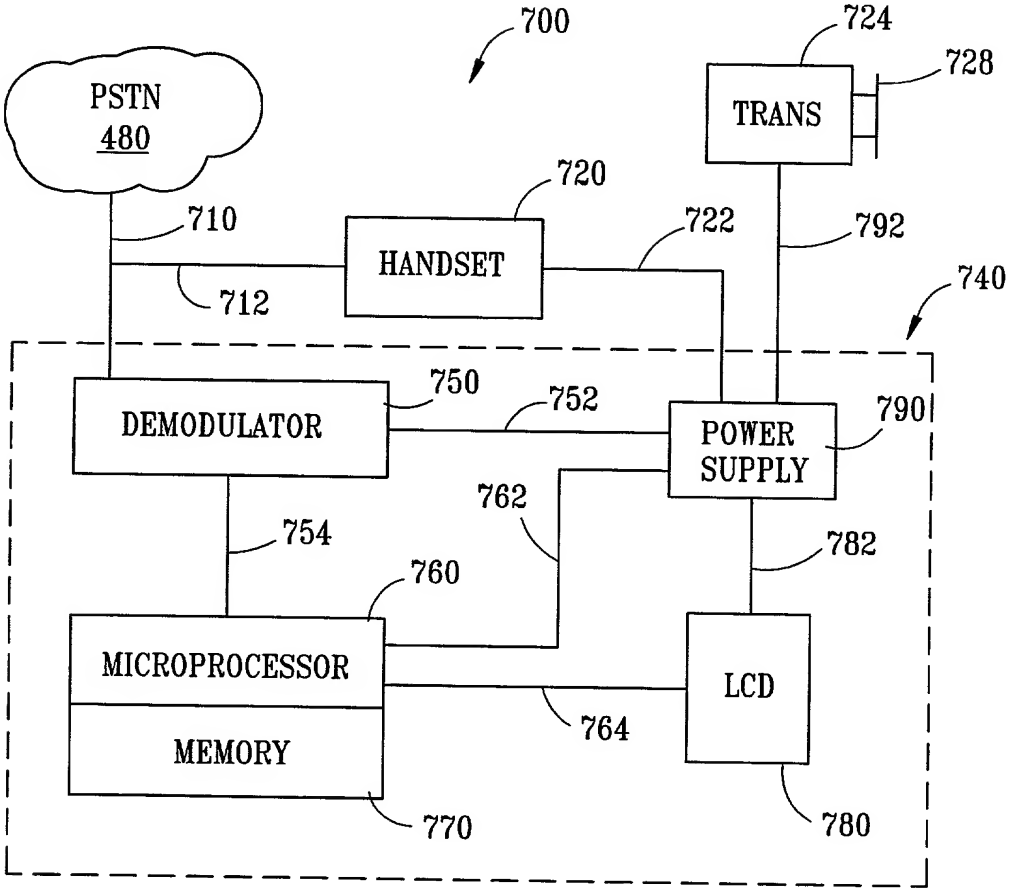


FIG. 8

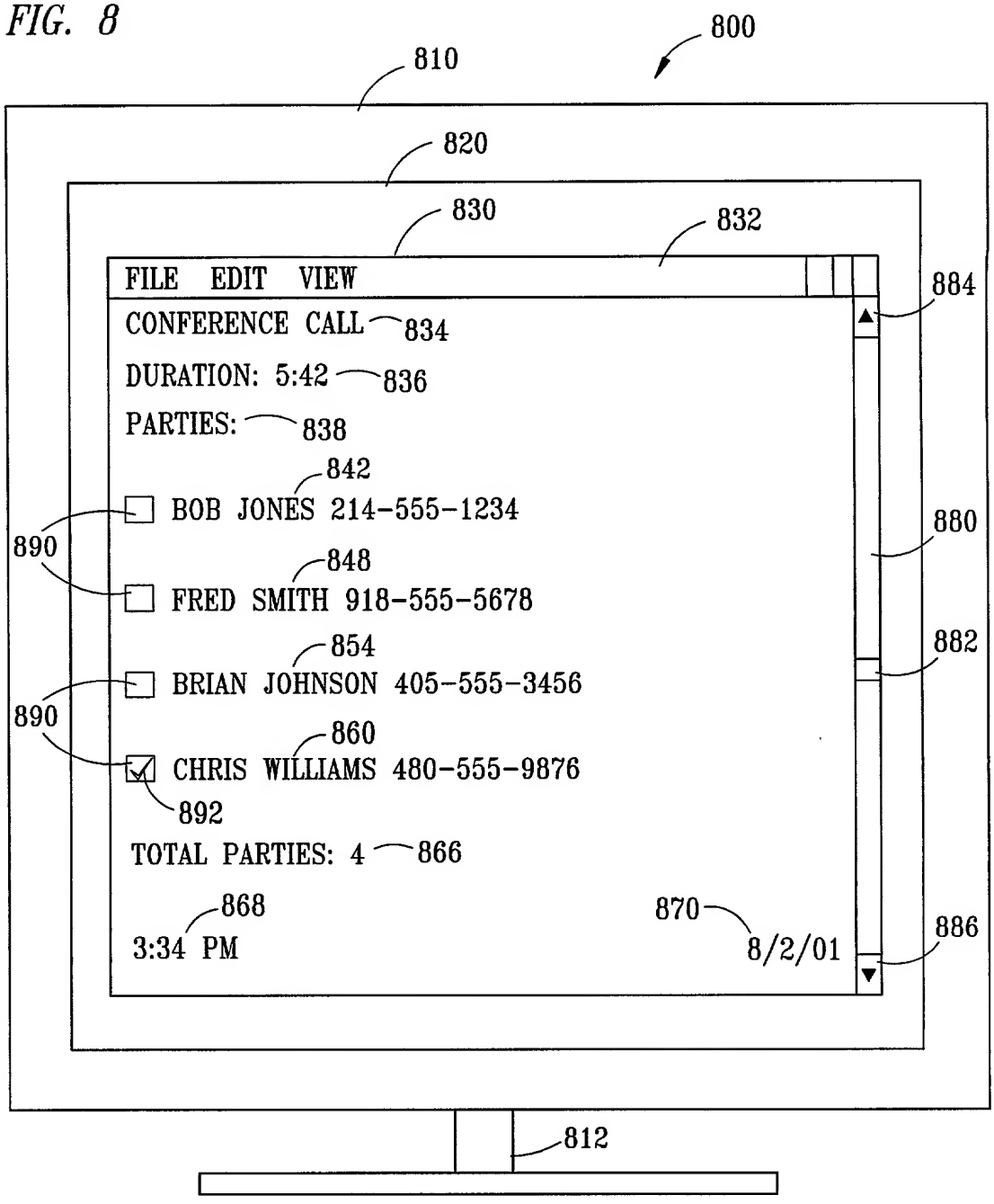

800
810
820
830
832
FILE EDIT VIEW
884
CONFERENCE CALL
834
DURATION: 5:42
836
PARTIES:
838
842
BOB JONES 214-555-1234
890
880
848
FRED SMITH 918-555-5678
854
BRIAN JOHNSON 405-555-3456
882
890
860
CHRIS WILLIAMS 480-555-9876
892
TOTAL PARTIES: 4
866
868
870
3:34 PM
8/2/01
886
812

FIG. 9A

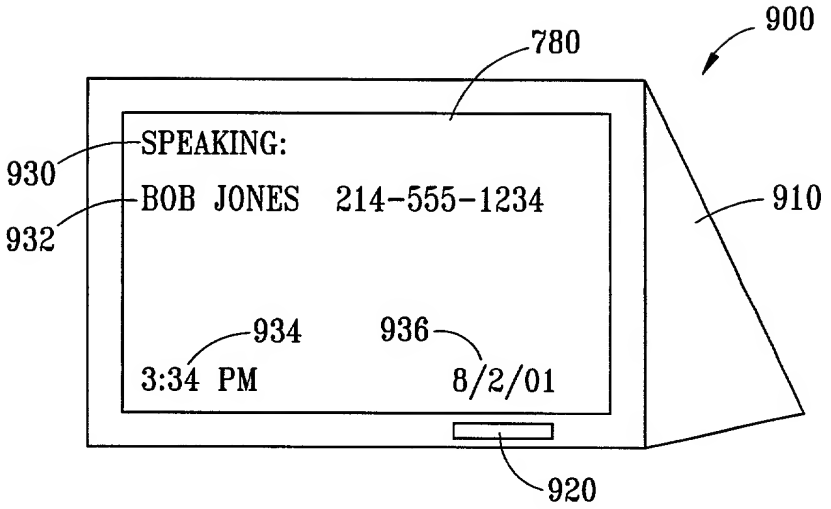

900
780
930
SPEAKING:
932
BOB JONES 214-555-1234
910
934
936
3:34 PM
8/2/01
920

FIG. 9B

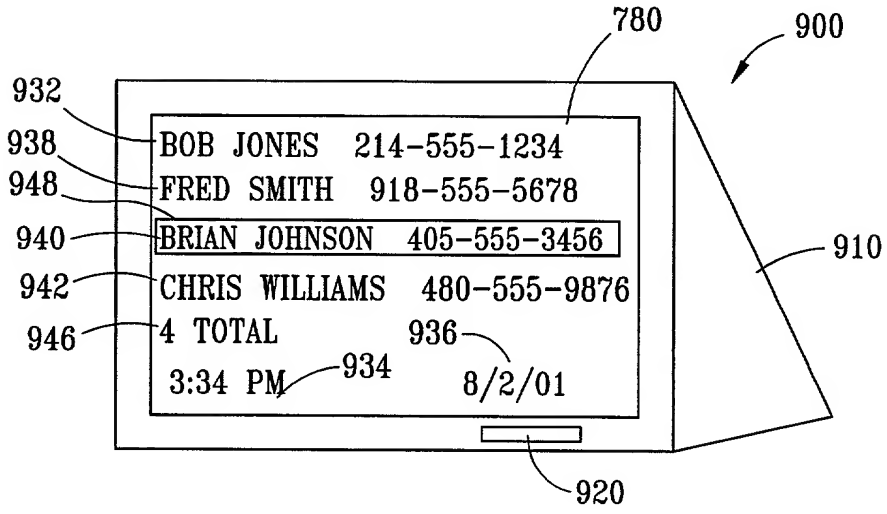

780
900
932
938
BOB JONES 214-555-1234
948
FRED SMITH 918-555-5678
940
BRIAN JOHNSON 405-555-3456
910
942
CHRIS WILLIAMS 480-555-9876
946
4 TOTAL
936
934
3:34 PM
8/2/01
920

FIG. 10

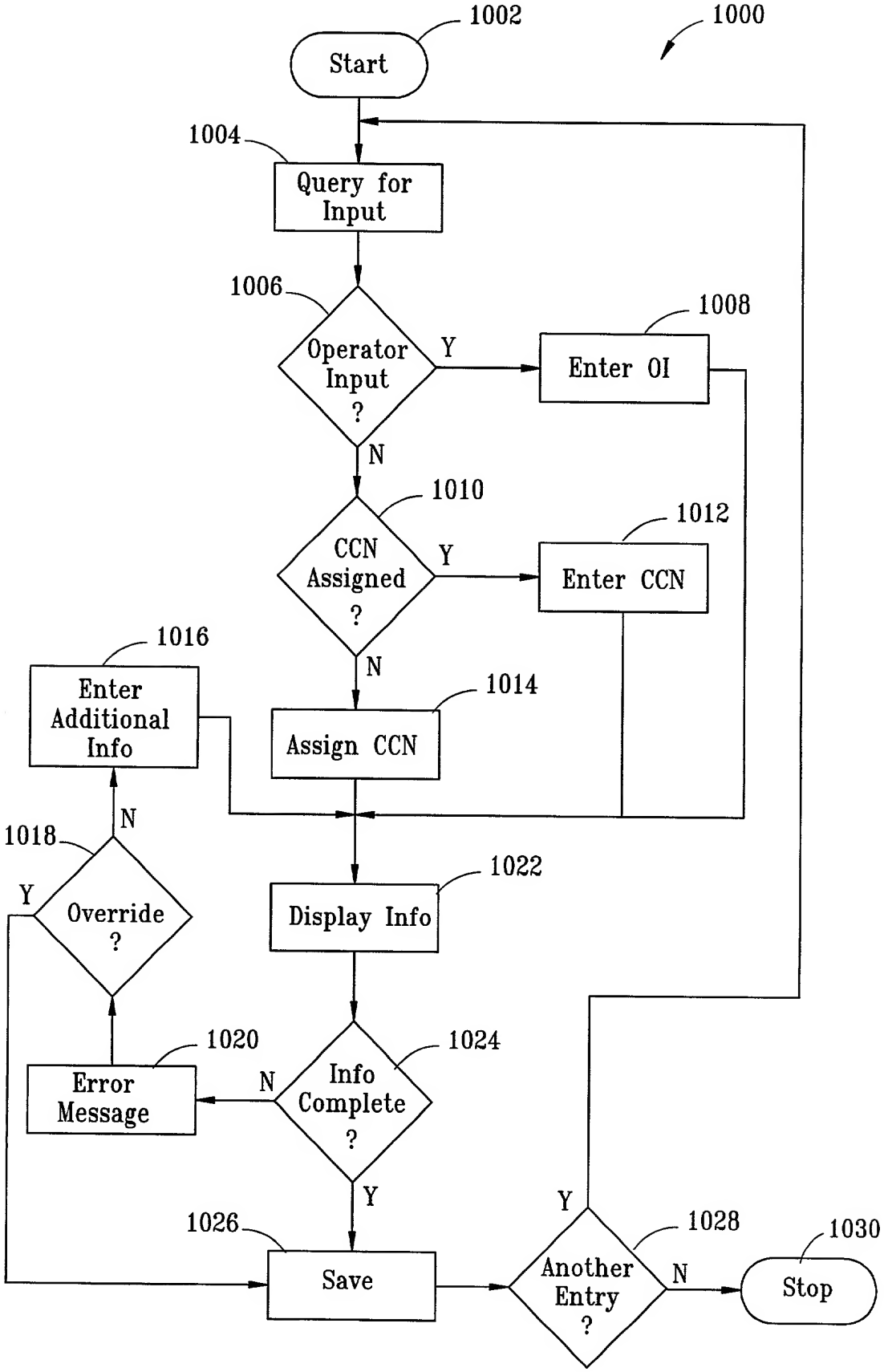

1000
1002
Start
1004
Query for Input
1006
Operator Input ?
Y
1008
Enter OI
N
1010
CCN Assigned ?
Y
1012
Enter CCN
N
1014
Assign CCN
1016
Enter Additional Info
N
1018
Override ?
Y
1022
Display Info
1020
Error Message
N
1024
Info Complete ?
Y
1026
Save
Y
1028
Another Entry ?
N
1030
Stop

FIG. 11

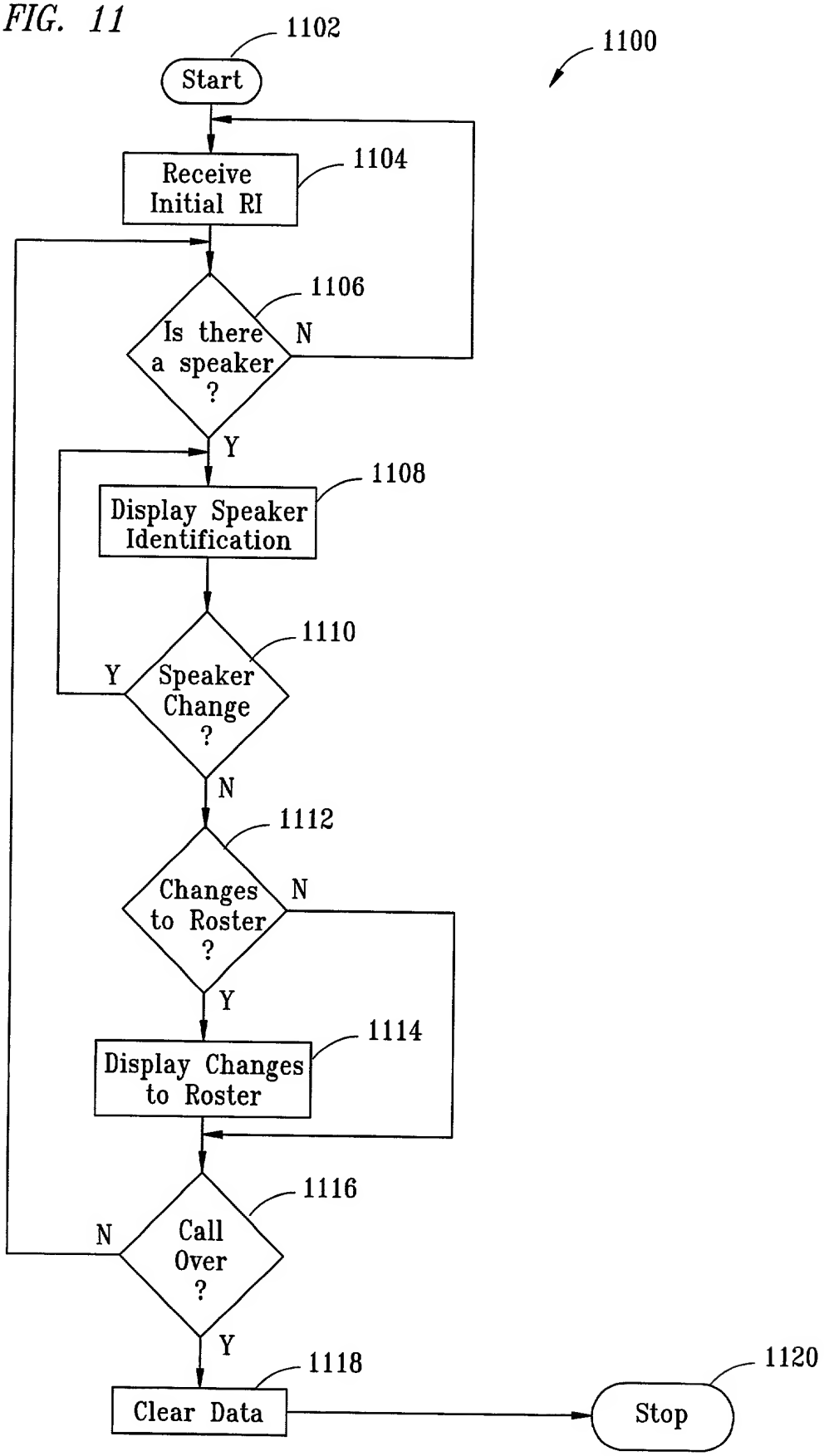

1100
1102
Start
Receive Initial RI
1104
Is there a speaker ?
1106
N
Y
Display Speaker Identification
1108
Speaker Change ?
1110
Y
N
Changes to Roster ?
1112
N
Y
Display Changes to Roster
1114
Call Over ?
1116
N
Y
Clear Data
1118
Stop
1120

FIG. 12

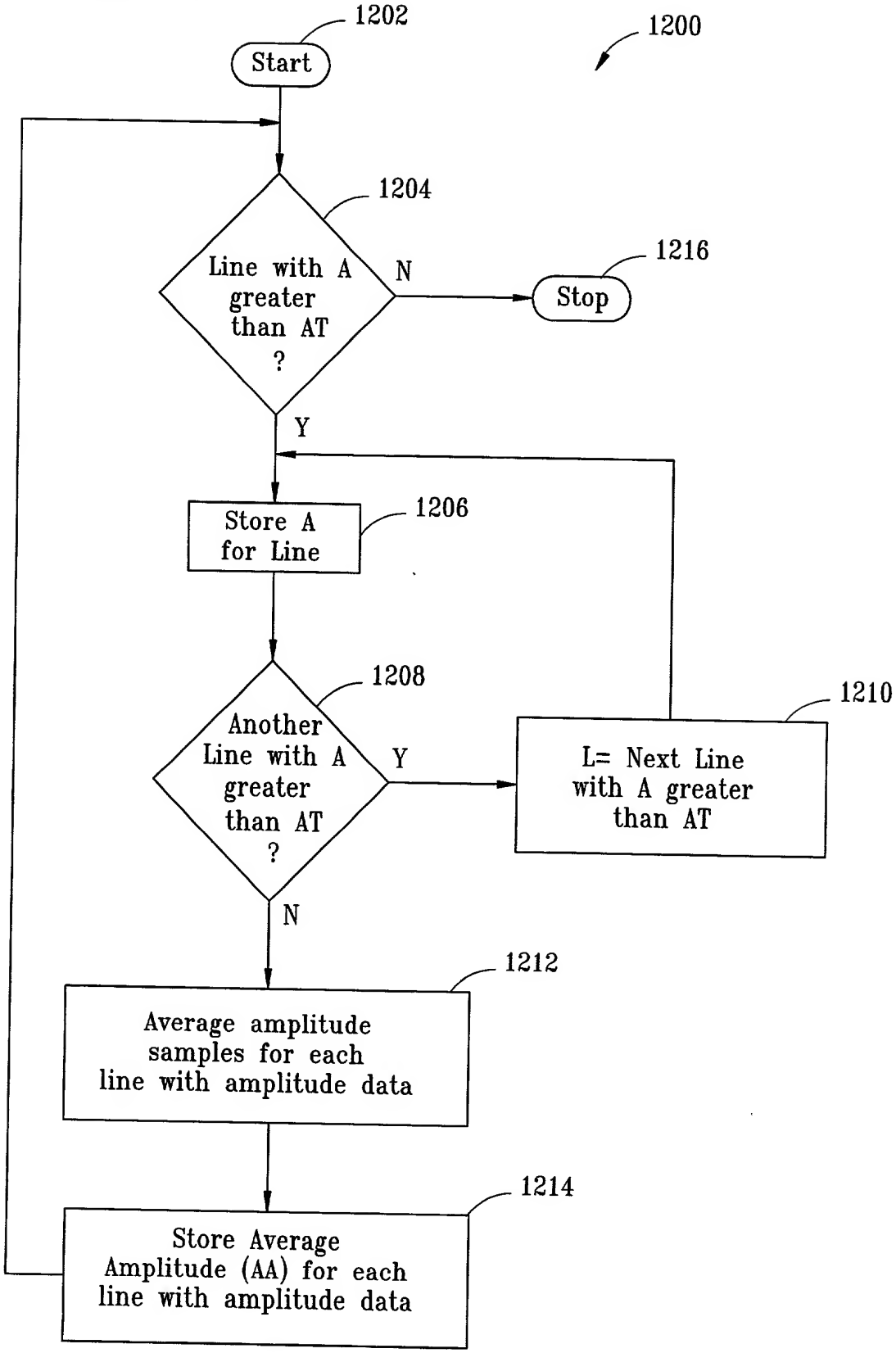

1200
1202
Start
1204
Line with A greater than AT ?
N
1216
Stop
Y
1206
Store A for Line
1208
Another Line with A greater than AT ?
Y
1210
L= Next Line with A greater than AT
N
1212
Average amplitude samples for each line with amplitude data
1214
Store Average Amplitude (AA) for each line with amplitude data

FIG. 13

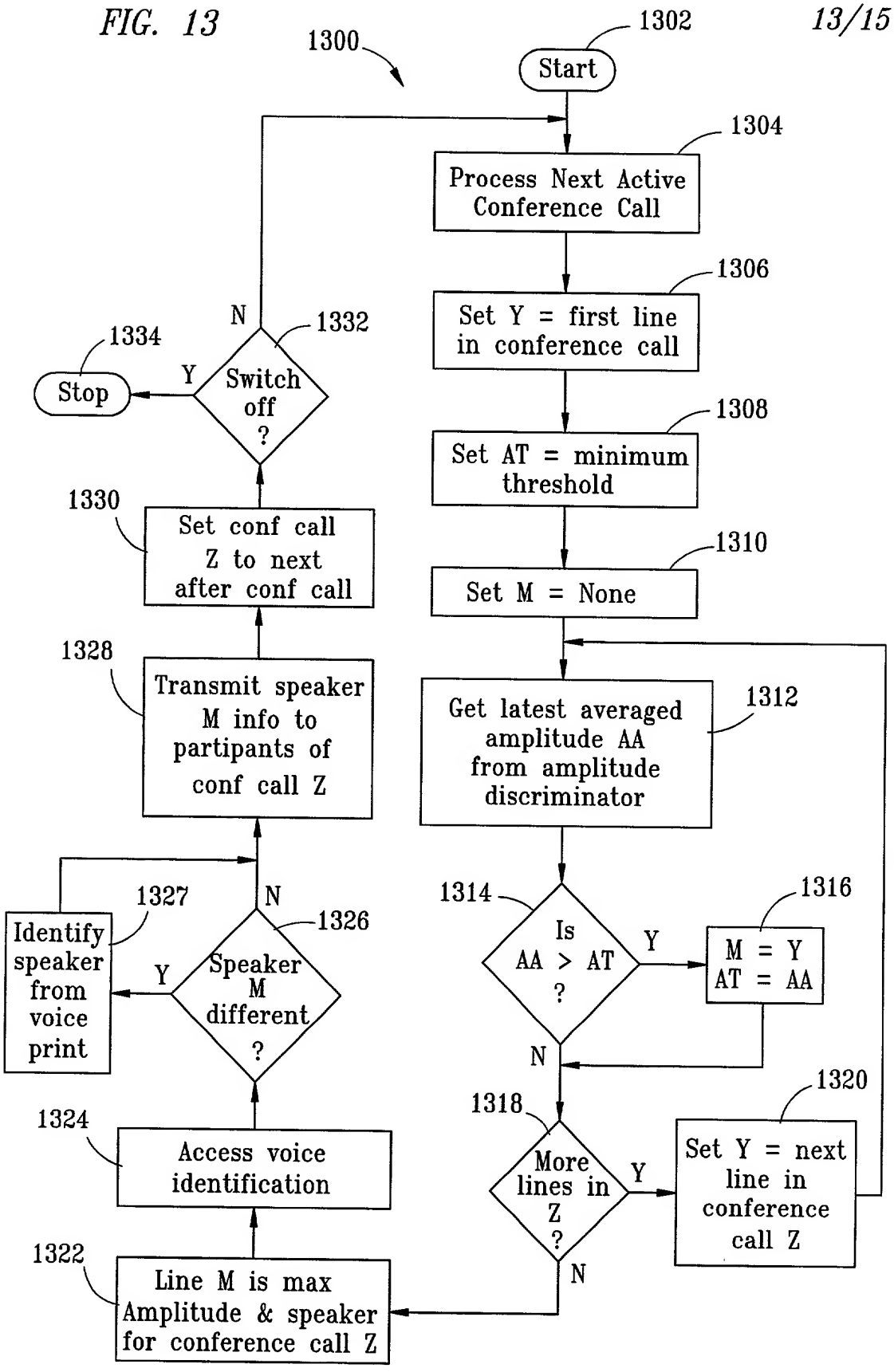

1300
1302
Start
1304
Process Next Active Conference Call
1306
Set Y = first line in conference call
1308
Set AT = minimum threshold
1310
Set M = None
1312
Get latest averaged amplitude AA from amplitude discriminator
1314
Is AA > AT ?
Y
1316
M = Y
AT = AA
N
1318
More lines in Z ?
Y
1320
Set Y = next line in conference call Z
N
1322
Line M is max Amplitude & speaker for conference call Z
1324
Access voice identification
1326
Speaker M different ?
Y
1327
Identify speaker from voice print
N
1328
Transmit speaker M info to partipants of conf call Z
1330
Set conf call Z to next after conf call
1332
Switch off ?
N
Y
1334
Stop

FIG. 14

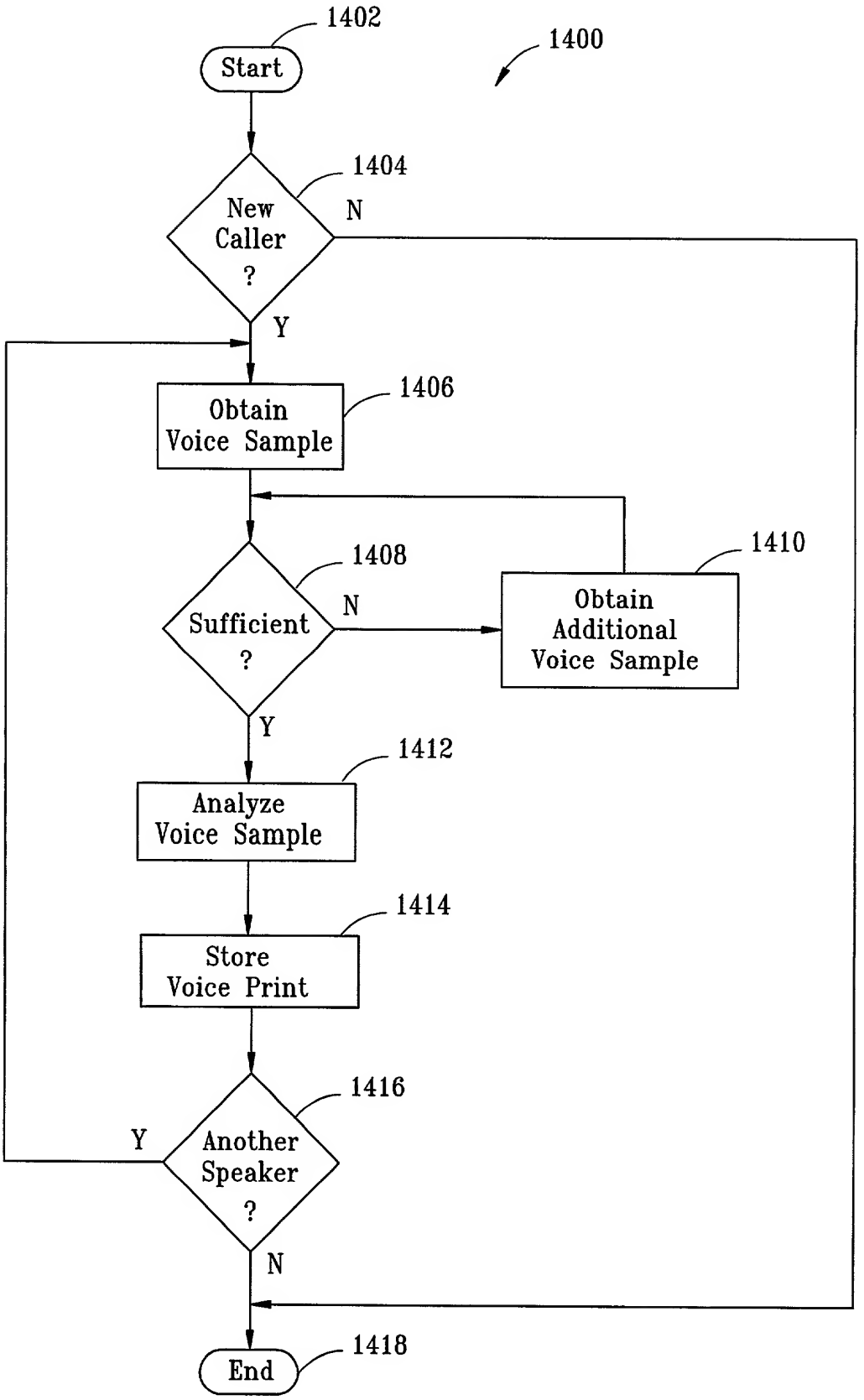
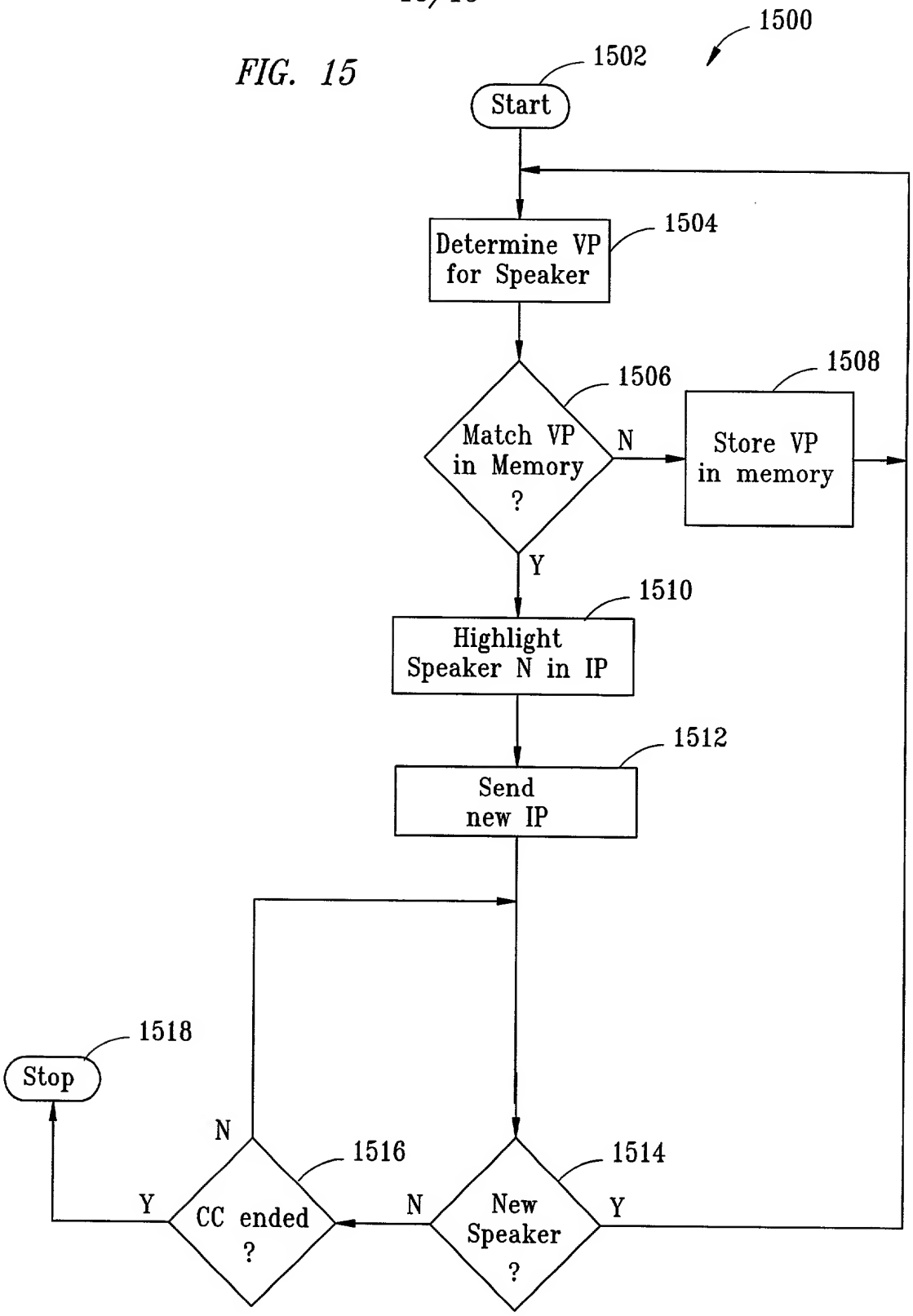

1402
Start
1400
1404
New Caller ?
N
Y
1406
Obtain Voice Sample
1408
Sufficient ?
N
1410
Obtain Additional Voice Sample
Y
1412
Analyze Voice Sample
1414
Store Voice Print
1416
Another Speaker ?
Y
N
1418
End

FIG. 15


1500
1502
Start
1504
Determine VP for Speaker
1506
Match VP in Memory ?
N
1508
Store VP in memory
Y
1510
Highlight Speaker N in IP
1512
Send new IP
1518
Stop
N
1516
CC ended ?
Y
N
1514
New Speaker ?
Y